

CLAIMS

1. A noise reducer for a vehicle wheel comprising
a pressure plate mounted on the outside of the wheel
utilizing hub bolts, and
a vibration damper disposed in a periphery zone of
the pressure plate so that the vibration damper presses a
disk portion of the wheel when the pressure plate is mounted.
2. The noise reducer according to claim 1, wherein
the vibration damper is annular and has a radial
width in a range of from 10 to 50 mm and a thickness in a
range of from 1 to 20 mm.
3. The noise reducer according to claim 1, wherein
the vibration damper is made of a vibration damping
material.
4. The noise reducer according to claim 3, wherein
the vibration damping material is a rubber.
5. The noise reducer according to claim 3, wherein
the vibration damping material is a foamed plastic.
6. The noise reducer according to claim 3, wherein
the vibration damping material is nonwoven fabric.
7. The noise reducer according to claim 3, wherein
the vibration damping material is an asphalt sheet.

8. The noise reducer according to claim 3, wherein the pressure plate has a diameter of not less than 200 mm and not more than a wheel rim diameter minus 50 mm.
9. A noise reducer set including a noise reducer for a vehicle wheel and at least one spacer,
said noise reducer comprising: a pressure plate provided with mounting holes and mounted on the outside of the wheel utilizing hub bolts and said mounting holes; and a vibration damper disposed in a periphery zone of the pressure plate so that the vibration damper presses a disk portion of the wheel when the pressure plate is mounted, and
said at least one spacer provided with through holes arranged in the same pattern as the mounting holes.
10. The noise reducer set according to claim 9, wherein said at least one spacer is a plurality of spacers having different thickness.
11. The noise reducer set according to claim 9 or 10 which further includes special nuts attachable to the hub bolts, each said special nut is made up of a main portion like a cap nut and a concentric bolt portion protruding from the cap thereof.
12. The noise reducer set according to claim 9 or 10 which further includes special nuts each attachable to the hub bolt, each said special nut made up of a main portion like a cap nut and a concentric bolt portion protruding from

the cap thereof, and nuts each attachable to the bolt portion.

13. A noise reducer set including a noise reducer for a vehicle wheel and special nuts,

said noise reducer comprising: a pressure plate provided with mounting holes and mounted on the outside of the wheel utilizing hub bolts and said mounting holes; and a vibration damper disposed in a periphery zone of the pressure plate so that the vibration damper presses a disk portion of the wheel when the pressure plate is mounted, and each said special nut is attachable to the hub bolt and made up of a main portion like a cap nut and a concentric bolt portion protruding from the cap thereof.

14. The noise reducer set according to claim 13 which further includes nuts each attachable to the bolt portion.

15. A combination of a vehicle wheel and a noise reducer, the vehicle wheel comprising: a rim portion on which a tire is mounted; a hub portion installed on a hub of a vehicle's axle and fixed using hub bolts; and a disk portion extending radially from the rim portion to the rim portion, and

the noise reducer comprising: a pressure plate mounted on the outside of the wheel utilizing said hub bolts; and a vibration damper disposed in a periphery zone of the pressure plate so that the vibration damper presses said disk portion when the pressure plate is mounted.